

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	931	331/74.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07
L2	1000	331/176.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07
L3	1275	331/158.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07
L4	144	368/159.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07
L5	178	368/156.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07
L6	245	368/184.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07
L7	242	368/202.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07
L8	147	331/50.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07
L9	330	331/46.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07
L10	793	310/348.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07
L11	751	310/311.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07
L12	304	310/360.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07
L13	417	310/361.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07
L14	256	331/48.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07

## EAST Search History

L15	24	(L14 or L3 or L2 or L1 or L5 or L6 or L7 or L4 or L8 or L9 or L10 or L11 or L12 or L13) and @pd>="20060209"	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:33
L19	12	(4 or 10) and (quad or four).clm.	US-PGPUB	OR	ON	2006/03/03 11:34
S1	8	("5555220" "5585556" "5842149" "6023444" "6308137" "6382332" "0060952").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 17:24
S2	1	US-20050007887-A1.did.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/15 17:44
S3	6	Sorrells-Martin.in. or Minto-James.in.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/15 17:45
S4	1	us-20020060952-A1.did.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 17:20
S5	8	("5555220" "5585556" "5842149" "6023444" "6308137" "6382332" "0060952").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 17:24
S6	1	S5 and oscillat\$3	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 17:29
S7	1	"quad compensated clock"	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 17:31
S8	550	"175"/\$.ccls. and ((time or clock) same oscillat\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 17:48
S9	222	"175"/\$.ccls. and ((time or clock) with oscillat\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 17:47
S10	91	"175"/\$.ccls. and ((time or clock) with oscillator)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 18:24
S11	175	"175"/\$.ccls. and ((time or clock) same oscillator)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 17:48
S12	144	368/159.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 18:07
S13	175	368/156.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 17:58
S14	245	368/184.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 17:58

## EAST Search History

S15	241	368/202.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 17:58
S16	174	S13 not S12	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 18:16
S17	244	S14 not (S13 or S12)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 18:19
S18	217	S15 not (S14 or S13 or S12)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 18:19
S19	43	"175"/\$.ccls. and ((time or clock) with crystal)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 18:37
S20	144	331/50.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 10:45
S21	13	("2364957").URPN.	USPAT	OR	ON	2005/10/19 09:35
S22	319	331/46.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:21
S23	144	331/50.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 10:45
S24	303	S22 not S23	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 15:05
S25	30012	"368"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 11:14
S26	36618	"331"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 11:14
S27	38461	"175"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 11:20
S28	51134	"166"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 11:38
S29	1	(crystal or oscillator) with (aligned or alignment) with acceleration with (series or cascade)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 11:39
S30	52	(crystal or oscillator) same (aligned or alignment) same acceleration same (series or cascade)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 11:40

## EAST Search History

S31	7	("4575690").URPN.	USPAT	OR	ON	2005/10/19 12:25
S32	1	("5250871").URPN.	USPAT	OR	ON	2005/10/19 14:27
S33	3	("4590442"   "4851790"   "5250871").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 14:27
S34	9	("3714476"   "4344010"   "4410822"   "4575690"   "4701661"   "4802371"   "4851790"   "4891611"   "Re29559").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 14:32
S35	2	("4851790").URPN.	USPAT	OR	ON	2005/10/19 14:43
S36	772	310/348.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 14:45
S37	724	310/311.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 14:45
S38	302	310/360.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 14:45
S39	416	310/361.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/19 14:45
S43	18	Driscoll-Michael-M.in. or Matthews-Norman-G.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/26 17:58
S44	772	310/348.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 14:38
S45	725	310/311.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 14:38
S46	707	S45 not S44	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 14:38
S47	302	310/360.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 14:58
S48	284	S47 not (S45 or S44)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 14:58
S49	416	310/361.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 15:01

## EAST Search History

S50	362	S49 not (S47 or S45 or S44)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 15:01
S51	319	331/46.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 15:05
S52	144	331/50.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 15:05
S53	2	(S51 or S52) and ((thermal or temperature) with insulat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 15:07
S54	36625	"331"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 15:06
S55	304	S54 and ((thermal or temperature) with insulat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 15:10
S56	5	(S51 or S52) and ((thermal or temperature) same insulat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 15:07
S57	39	S54 and ((packag\$3 or housing) with (thermal or temperature) with insulat\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 15:10
S58	278	331/68.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 15:15
S59	20	S58 and ((insulation or insulated) same (thermal or temperature))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 15:16
S60	20	(US-20020060952-\$ or US-20050007887-\$).did. or (US-2364957-\$ or US-4575690-\$ or US-4739325-\$ or US-4745376-\$ or US-4851790-\$ or US-5250871-\$ or US-5555220-\$ or US-5585556-\$ or US-5592126-\$ or US-5608360-\$ or US-5842149-\$ or US-5933061-\$ or US-6023444-\$ or US-6064210-\$ or US-6297704-\$ or US-6308137-\$ or US-6382332-\$ or US-6837105-\$).did.	US-PGPUB; USPAT	OR	ON	2005/10/20 15:16
S61	3	S60 and (insulat\$3 same (thermal or temperature))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/20 15:16
S62	11	(oscillator or crystal) same aging same hysteresis same stability	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 10:30

## EAST Search History

S63	1	aging same hysteresis same stability same warm\$1up same short\$1term same long\$1term	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 10:25
S64	323	(oscillator or crystal) same algorithm same compensat\$5	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 10:31
S65	42	(oscillator or crystal) with algorithm with compensat\$5	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 10:32
S66	106	(oscillator or crystal) with (program or software) with compensat\$5	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 10:32
S67	96	S66 not S65	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 12:45
S68	17	(Allan or Hadamard) adj deviation	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 10:43
S69	20	(US-20020060952-\$ or US-20050007887-\$).did. or (US-2364957-\$ or US-4575690-\$ or US-4739325-\$ or US-4745376-\$ or US-4851790-\$ or US-5250871-\$ or US-5555220-\$ or US-5585556-\$ or US-5592126-\$ or US-5608360-\$ or US-5842149-\$ or US-5933061-\$ or US-6023444-\$ or US-6064210-\$ or US-6297704-\$ or US-6308137-\$ or US-6382332-\$ or US-6837105-\$).did.	US-PGPUB; USPAT	OR	ON	2005/10/21 12:45
S70	1	S69 and hysteresis	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 13:56
S71	14	(S65 or S66) and hysteresis	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 12:46

## EAST Search History

S72	27	(US-20020060952-\$ or US-20050007887-\$ or US-20040246059-\$ or US-20020173284-\$ or US-20030152177-\$).did. or (US-2364957-\$ or US-4575690-\$ or US-4739325-\$ or US-4745376-\$ or US-4851790-\$ or US-5250871-\$ or US-5555220-\$ or US-5585556-\$ or US-5592126-\$ or US-5608360-\$ or US-5842149-\$ or US-5933061-\$ or US-6023444-\$ or US-6064210-\$ or US-6297704-\$ or US-6308137-\$ or US-6382332-\$ or US-6837105-\$ or US-6473607-\$ or US-6925402-\$ or US-6683564-\$ or US-6590945-\$).did.	US-PGPUB; USPAT	OR	ON	2005/10/21 13:55
S73	2	S72 and hysteresis	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 13:57
S74	26	S72 and frequency	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 13:59
S75	1	S72 and ensemble	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 14:21
S76	3	("5608360").URPN.	USPAT	OR	ON	2005/10/21 14:04
S77	51164	"166"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 14:04
S78	61	S77 and (downhole with (timing or clock))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 14:09
S79	26	S78 and (oscillator or crystal)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 14:09
S80	36625	"331"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 14:15
S81	69	S80 and ensemble	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 14:21
S82	11	("3379992"   "3518567"   "3826995"   "4303893"   "4440501"   "4525685"   "4843328"   "4845692"   "4943955").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 14:18

## EAST Search History

S83	16	S72 and plurality	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 14:21
S84	1988	S80 and (plurality near3 (oscillator or crystal))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 15:04
S85	388	S84 and (output with combin\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 15:03
S86	111	S80 and (plurality near3 (oscillator or crystal) same (output with combin\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 15:11
S87	0	S77 and (plurality near3 (oscillator or crystal) same (output with combin\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 15:12
S88	0	S77 and (plurality same (oscillator or crystal) same (output with combin\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 15:12
S89	30014	"368"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 15:12
S90	9	S89 and (plurality same (oscillator or crystal) same (output with combin\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 15:12
S91	915	331/74.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:24
S92	980	331/176.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:22
S93	1255	331/158.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:22
S94	144	368/159.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:24
S95	177	368/156.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:24
S96	245	368/184.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:24
S97	241	368/202.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:24



## EAST Search History

S98	144	331/50.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:24
S99	320	331/46.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:24
S10 0	772	310/348.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:24
S10 1	725	310/311.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:24
S10 2	302	310/360.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:24
S10 3	416	310/361.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:24
S10 4	874	S91 not (S95 or S96 or S97 or S94 or S98 or S99 or S100 or S101 or S102 or S103)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:24
S10 5	254	331/48.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:24
S10 6	916	S92 not (S91 or S95 or S96 or S97 or S94 or S98 or S99 or S100 or S101 or S102 or S103)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:26
S10 7	956	S93 not (S92 or S91 or S95 or S96 or S97 or S94 or S98 or S99 or S100 or S101 or S102 or S103)	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/26 12:26
S10 8	216	S105 not (S93 or S92 or S91 or S95 or S96 or S97 or S94 or S98 or S99 or S100 or S101 or S102 or S103)	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:43
S10 9	1	("5250871").URPN.	USPAT	OR	ON	2006/01/26 17:28
S11 0	716	oscillator with output with temperature with compensat\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/26 18:00
S11 1	38682	"175"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/26 18:00
S11 2	0	S110 and S111	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/26 18:01

## EAST Search History

S11 3	36830	"331"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/26 18:01
S11 5	30147	"368"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/26 18:02
S11 6	29	S110 and S115	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/26 18:23
S11 7	3	"quad compensated"	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/27 13:14
S11 8	716	oscillator with output with temperature with compensat\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/27 12:15
S11 9	36830	"331"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/27 10:53
S12 0	363	S118 and S119	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/27 10:53
S12 1	7	oscillator with output with temperature with compensat\$4 with (quad or four)	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/27 11:18
S12 2	2	S120 and S121	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/27 10:55
S12 3	5	S121 not S122	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/27 11:18
S12 4	2	("4851790").URPN.	USPAT	OR	ON	2006/01/27 11:55
S12 5	177	oscillator with output with temperature with compensat\$4 with (sens\$3 or detect\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/27 12:18
S12 6	72	S125 and S119	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/27 12:18
S12 7	291	S120 not S126	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/27 13:12
S12 8	0	"quad compensat\$"	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/27 13:14
S12 9	5	quad adj compensat\$	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/27 13:15

## EAST Search History

S13 0	823	oscillator near3 array	US-PGPUB; USPAT; USOCR	OR	ON	2006/01/27 13:15
S13 1	36847	"331"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 14:22
S13 2	825	oscillator near3 array	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 14:22
S13 3	111	S132 and S131	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 14:22
S13 4	929	331/74.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44
S13 5	993	331/176.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44
S13 6	1272	331/158.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44
S13 7	144	368/159.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44
S13 8	177	368/156.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44
S13 9	245	368/184.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44
S14 0	242	368/202.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44
S14 1	146	331/50.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44
S14 2	326	331/46.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44
S14 3	790	310/348.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44
S14 4	743	310/311.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44

## EAST Search History

S14 5	303	310/360.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44
S14 6	416	310/361.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44
S14 7	255	331/48.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/02 15:44
S14 8	84	(S147 or S136 or S135 or S134 or S138 or S139 or S140 or S137 or S141 or S142 or S143 or S144 or S145 or S146) and @pd>="20051026"	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/03 11:07